

FEB 17 1995

Mr. Marvin H. Alphin
Manager, Ag Registrations
Abbott Laboratories
Chemical & Agricultural Products Division
D-28R, Bldg. A-1
1401 Sheridan Road
North Chicago, IL 60064

464 | 5482062
18 |

Dear Mr. Alphin:

Subject: Labeling Amendment Regarding Inclusion of WPS Statements
DEVINE® Biological Herbicide
EPA Registration No. 275-39

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below.

1) Modify the personal protective equipment heading to read "PERSONAL PROTECTIVE EQUIPMENT (PPE)" and place the following headings directly above the ppe heading.

PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

2) Directly above the user safety recommendations box insert "Use detergent and hot water for cleaning PPE. Keep and wash PPE separately from other laundry."

Submit two (2) copies of the final printed labeling prior to releasing the product for shipment.

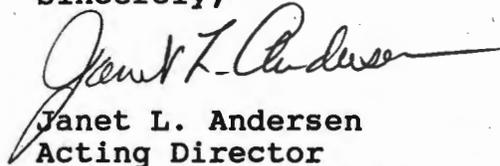
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA § 6(e).

Mendelsohn / Phytophthora palmivora mww PC Cule 111301

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Your release for shipment of the amended product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Sincerely,



Janet L. Andersen
Acting Director
Biopesticides and Pollution
Prevention Division (7501W)

275-39

**DEVINE®
Biological Herbicide**

Active Ingredient:

Live Chlamydo spores of *Phytophthora palmivora* MWV 3.2×10^8 per pint
(6.7×10^5 live Chlamydo spores per ml).....0.8% w/w

Inert Ingredients.....99.2% w/w

KEEP OUT OF REACH OF CHILDREN

CAUTION

Refer to supplemental labeling (inside booklet) for storage/disposal statements, additional precautionary statements, crops, rates, Personal Protective Equipment (PPE) and general directions.

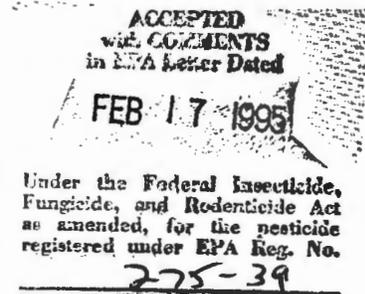
AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to supplemental labeling under "Agricultural Use Requirements", in the Directions for Use section for information about the standard.

KEEP REFRIGERATED - DO NOT FREEZE

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North Chicago, IL 60064

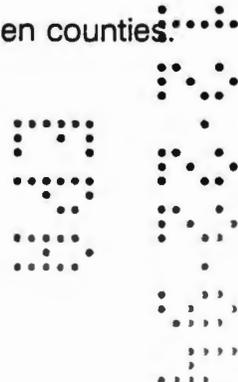
EPA Reg. No. 275-39
EPA Establishment No. 275-IL-1



For use in Florida only. Do not use in Clay, Gulf, Liberty or Gadsden counties.

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DEVINE®

ENCLOSURE

Active Ingredient:

Live Chlamydospores of *Phytophthora palmivora* MWV 3.2×10^8 per pint
(6.7×10^5 live Chlamydospores per ml).....0.8% w/w

Inert Ingredients.....99.2% w/w

KEEP OUT OF REACH OF CHILDREN

CAUTION

KEEP REFRIGERATED - DO NOT FREEZE

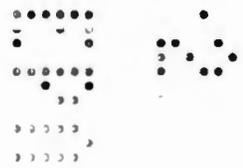
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EPA Reg. No. 275-39
EPA Establishment No. 275-IL-1

For use in Florida only. Do not use in Clay, Gulf, Liberty or Gadsden counties.

Devine is a mycoherbicide for the control of *Morenia orderata*, strangler vine or milkweed vine, in citrus trees. This fungus will initiate a root infection in milkweed vine plants that starts to kill the vine in six to ten weeks following application, depending on the size and maturity of the vine. Populations of the vine generally continue to decrease over the period of a year after treatment. Complete control may not be achieved in the first year of treatment. Devine will not harm citrus trees.

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PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.



AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

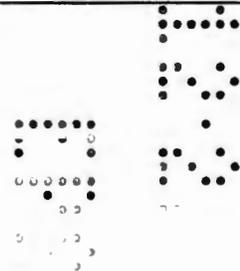
STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Keep refrigerated, do not freeze. Failure to refrigerate causes rapid product deterioration and bottle leakage. Return unopened, still refrigerated, out-of-date product to your supplier immediately upon expiration for disposal.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Do not reuse empty containers. Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



MIXING DIRECTIONS

Triple rinse the tank and lines of the herbicide boom sprayer system. Adjust nozzles for coverage of all the soil where the vine is growing. Use 50 mesh or coarser screens. Half-fill the tank with water, add required amount of Devine and agitate as the tank is filled.

APPLICATION DIRECTIONS

Use rate: 1 pint Devine per treated acre.

Devine may be applied in any type of citrus grove from May through September after the weed has germinated or is actively growing. Only one treatment per season is necessary.

Apply with a herbicide boom sprayer to achieve uniform coverage of the soil under the tree canopy. Use at least 50 gallons of spray water per treated acre. The surface of the soil must be wet at the time of application. Adequate moisture can be achieved with either 2 inches of water, rainfall or irrigation, prior to treatment or 1 inch water pretreatment followed by ½ inch on the third day after treatment.

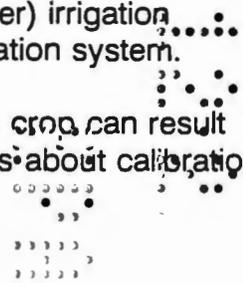
APPLICATION RESTRICTIONS

- DO NOT**
- mix with chlorinated water.
 - tank mix with wetting agent, fertilizer, or any other pesticide.
 - apply in wind conditions favoring drift.
 - apply where the susceptible plants watermelon and periwinkle are grown.
 - apply within 100 ft of the following plants: cucumber, squash, Begonia, Bougainvillea, boxwood, Hibiscus, oak, areca palm, Pittosporum, snapdragon, Washingtonia and coconut palm and hybrid Rhododendron.
 - apply more than one pint per acre per season.

CHEMIGATION

Apply this product only through low volume sprinkler (micro sprinkler) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration,



you should contact State Extension Service specialists, equipment manufacturer or other experts.

Do not connect an irrigation system (including greenhouse systems) used for Devine application to a public water system.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

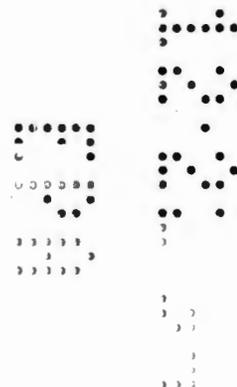
The active ingredient in Devine will settle in the tank and injection lines; adequate agitation must be provided before and during the injection period. Use only in systems that apply uniformly and have appropriate check valves. Do not apply where wind speed favors drift beyond the area intended for treatment. When application is complete, thoroughly flush the injection system and sprinkler lines.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed solenoid operated valve connected to a system interlock located on the intake side of the injection pump and to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide inject pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.



DIRECTIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Application Instructions:

Apply Devine only through low volume sprinkler irrigation systems (micro sprinkler). Prepare a suspension of Devine in a mix tank at a dilution ratio of 1 pint in 2 gallons of water. Provide mild uniform agitation throughout the suspension but do not agitate excessively. Set sprinkler and uniformly inject the suspension of Devine into the irrigation water line so as to deliver 1 pint of Devine per treated acre.

Application Timing for Chemigation:

Devine should be applied to thoroughly moistened soil that has previously received either 2 inches of water through rainfall or irrigation, or 1 inch of water followed by 1/2 inch on third day after treatment. Application of product should occur towards the end of irrigation so as to avoid excessive leaching.

NOTICE TO USER

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

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